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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.            | CONFIRMATION NO. |
|---|-------------|----------------------|--------------------------------|------------------|
| 10/618,018  | 07/14/2003  | Satoshi Fujimine     | 240084US0                      | 4020             |
| 22850   | 7590        | 09/22/2005           |                                |                  |
| OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.<br>1940 DUKE STREET<br>ALEXANDRIA, VA 22314 |             |                      |                                |                  |
|   |             |                      | EXAMINER<br>SANTIAGO, MARICELI |                  |
|   |             |                      | ART UNIT<br>2879               | PAPER NUMBER     |

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental  
Notice of Allowability**

Application No.

10/618,018

Examiner

Mariceli Santiago

Applicant(s)

FUJIMINE ET AL.

Art Unit

2879

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed June 30, 2005.
2. ☒ The allowed claim(s) is/are 1 and 3-36.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                   |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                                 | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>9/16/2005</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                          |
|   | 9. <input type="checkbox"/> Other _____   |

### **SUPPLEMENTAL DETAILED ACTION**

This supplemental action has been generated in response to applicant's request to correct a typographical error present in the office action mailed August 25, 2005, see the attached Interview Summary for more details.

#### ***Response to Amendment***

The Amendment, filed on June 30, 2005, has been entered and acknowledged by the Examiner.

Cancellation of claim 2 has been entered.

Claims 1 and 3-36 are pending in the instant application.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel R. Evans on August 18, 2005.

The application has been amended as follows:

#### **In the claims,**

Claim 16, lines 2-3, the recitation "at least 1% and at most 20%" has been replaced with the recitation -- at least 16% and at most 18.2%--.

***Allowable Subject Matter***

Claims 1 and 3-36 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation of glass which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B<sub>2</sub>O<sub>3</sub>, from 4 to 15% of SiO<sub>2</sub>, from 20 to 44% of B<sub>2</sub>O<sub>3</sub>+SiO<sub>2</sub>, from 0.5 to 10% of TiO<sub>2</sub>+ZrO<sub>2</sub>+La<sub>2</sub>O<sub>3</sub>+Ta<sub>2</sub>O<sub>5</sub>, from 1 to 10% of Al<sub>2</sub>O<sub>3</sub>, from 12-20% of BaO, from 0 to 1% of CuO and from 0 to 1% of CeO<sub>2</sub>.

Regarding claims 3-5 and 10-20, claims 3-5 and 10-20 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claims 6, 8 and 9, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claims 6, 8 and 9, and specifically comprising the limitation of the glass consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B<sub>2</sub>O<sub>3</sub>, from 4 to 15% of SiO<sub>2</sub>, from 20 to 44% of B<sub>2</sub>O<sub>3</sub>+SiO<sub>2</sub>, from 0.5 to 10% of TiO<sub>2</sub>+ZrO<sub>2</sub>+La<sub>2</sub>O<sub>3</sub>+Ta<sub>2</sub>O<sub>5</sub>, from 0 to 15% of Al<sub>2</sub>O<sub>3</sub>, from 0-25% of BaO, from 0 to 1% of CuO and from 0 to 1% of CeO<sub>2</sub>.

Regarding claim 7, claim 7 is allowable for the reasons given in claim 6 because of its dependency status from claim 6.

Regarding claims 21-28, claims 21-28 are allowable for the reasons given in claim 8 because of their dependency status from claim 8.

Regarding claims 29-36, claims 29-36 are allowable for the reasons given in claim 9 because of their dependency status from claim 9.

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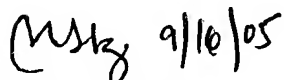
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariceli Santiago whose telephone number is (571) 272-2464. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Mariceli Santiago  
Primary Examiner  
Art Unit 2879